

Journal of Andrology, Vol 22, Issue 2 207-211, Copyright © 2001 by The American Society of Andrology

JOURNAL ARTICLE

Testicular secretion of inhibin in the male golden hamster (*Mesocricetus auratus*)

W. Jin, S. Wada, K. Y. Arai, H. Kishi, C. B. Herath, G. Watanabe, A. K. Suzuki, N. P. Groome and K. Taya
Department of Basic Veterinary Science, The United Graduate School of Veterinary Science, Gifu University, Japan.

To identify the cellular source of inhibin in the male golden hamster, we have used complementary approaches, immunohistochemistry and enzyme-linked immunosorbent assay (ELISA). Strong positive staining of the inhibin alpha subunit was observed in both the Sertoli and Leydig cells of the testes. No specific staining was observed for the inhibin betaA subunit, whereas specific staining for the inhibin betaB subunit was strongly positive in the Leydig cells. Inhibin pro-alphaC and inhibin B were detected in peripheral plasma, and testicular homogenate also contained large amounts of inhibin pro-alphaC and inhibin B. However, inhibin A was not detected either in peripheral plasma or in testicular homogenate. Plasma concentrations of inhibin pro-alphaC and inhibin B were significantly ($P < .001$) decreased 24 hours after orchidectomy. These results strongly suggest that the Leydig cells are the main source of dimeric inhibin B in the male golden hamster.

This article has been cited by other articles:



BIOLOGY of REPRODUCTION

[▶ HOME](#)

H. Kaneko, J. Noguchi, K. Kikuchi, and Y. Hasegawa
Molecular Weight Forms of Inhibin A and Inhibin B in the Bovine Testis Change with Age
Biol Reprod, May 1, 2003; 68(5): 1918 - 1925.
[\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)



Journal of ANDROLOGY

[▶ HOME](#)

W. Jin, C. B. Herath, M. Yoshida, K. Y. Arai, E. Saita, S. Zhanquan, L. Ren, G. Watanabe, N. P. Groome, and K. Taya
Inhibin B Regulating Follicle-Stimulating Hormone Secretion During Testicular Recrudescence in the Male Golden Hamster
J Androl, November 1, 2002; 23(6): 845 - 853.
[\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)

This Article

- ▶ [Full Text \(PDF\)](#)
- ▶ [Alert me when this article is cited](#)
- ▶ [Alert me if a correction is posted](#)

Services

- ▶ [Similar articles in this journal](#)
- ▶ [Similar articles in PubMed](#)
- ▶ [Alert me to new issues of the journal](#)
- ▶ [Download to citation manager](#)

Citing Articles

- ▶ [Citing Articles via HighWire](#)
- ▶ [Citing Articles via Google Scholar](#)

Google Scholar

- ▶ [Articles by Jin, W.](#)
- ▶ [Articles by Taya, K.](#)
- ▶ [Search for Related Content](#)

PubMed

- ▶ [PubMed Citation](#)
- ▶ [Articles by Jin, W.](#)
- ▶ [Articles by Taya, K.](#)

